

## Today's Topics:

          Callsign database, Macmorse.  
          Cleaning Old RIGs  
          CQ IDX ...  
Microwave hops on localtalk network  
          POSTSCRIPT QSL File, by NW2M  
          Requesting Info-hams mailer  
          Vertical HF Antennas

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Date: Tue, 14 Nov 89 11:23:03 EST

From: "Mike Jordan G4ASQ" <JORDAN@LL.LL.MIT.EDU>

Subject: Callsign database, Macmorse.

>From: ka9q.bellcore.com!karn@bellcore.com (Phil Karn)

>By the way, my copy of this year's callbook is about 5 megabytes smaller  
>than last year's: 43,160,647 bytes vs 48,180,089. One change had already  
>been made to it when I received it - the three date fields are now expressed

Is the callbook database on any machine from whence it be FTPed ??

I have had no luck with the callsign server on marvin.cs - I can Telnet  
to the default port & get the login prompt, but when I ask for port 2000  
all I get is silence...

>From: genrad!dls@husc6.harvard.edu (Diana L. Syriac)

>There is a public domain package called MacMorse and a commercial package  
>called MacMorse also. I have both, having first paid for the latter....  
>I do believe they are from the same person....they do operate identically  
>the same. In any case, I'm at work and don't have the addresses available  
>here. If you're still interested, send me an email and I'll hunt them  
>up at home.

I'm sure I'm not the only one that would be interested in a public domain  
Morse program. There seem to be any number of MD-DOS programs out there  
but very few Mac ones. I even tried to cobble one together myself. It  
sort of works, but requires MS-Basic. Please Diana, post the info  
preferably including where we can download the PD version from.

P.S. Thanks for the Stacks. I'm now waiting for my US Advanced call  
in the mail. (It sure has been a long month....)

73s de

Mike G4ASQ/KC1?? very soon...

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Date: Tue, 14 Nov 89 15:58:38 EST  
From: Michael\_Edelman%Wayne-MTS@um.cc.umich.edu  
Subject: Cleaning Old RIGs

Just had a very interesting conversation with Wade at Associated Radio while locating (and ordering) the Omni D of my dreams (No, couldn't find a Swan/Cubic 103, but now I can unload my TS-140 rice rocket....). Wade was telling me about the methods they use for reconditioning radios, and in particular how to remove the cosmoline-like (his phrase) residue from cigarette and cigar smoke. His wonder product? Lysol Bathroom Cleaner. You read it here first. Me, I'm off to the car to attack the TM-211.

1001001 de ke8yy

Wayne State University / 5925 Woodward / Detroit, MI 48202  
Michael\_Edelman@um.cc.umich.edu (reliable)  
Michael\_Edelman%Wayne-Mts@um.cc.umich.edu (direct)  
MEDELMAN@WAYNEST1 / 1-313-577-0742 / fax: 1-313-577-5500

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Date: 8 Nov 89 12:21:03 GMT  
From: mcsun!ukc!tcdcs!csvax1.cs.tcd.ie!swift.cs.tcd.ie!dit2!ghainbach@uunet.uu.net  
Subject: CQ IDX ...

CQ CQ CQ IDX ..

This is the Irish station calling .....

Available of contact 09.00 GMT and 17:30 GMT

Standing by .....

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Date: Tue, 14 Nov 89 11:15:00 EST  
From: U009%CCIW.bitnet@ugw.utcs.utoronto.ca  
Subject: Microwave hops on localtalk network

A co-worker recently remembered an article (with photograph) read in a computer related magazine 2 or 3 years ago. It dealt with a localtalk network with one or more of the hops handled by microwave links. The frequency could have been 3 or 10 GHz but the author specified that rather small dishes were required for 10 mile distances.

He suspects the installation is (was) on a university somewhere. Exhaustive search of various magazines (Dr Dobbs, etc) has not proved fruitful. Does anyone remember the article, better yet was anyone a participant? We would like to build up something similar.

Regards, Stu Beal, VE3MWM, (U009@CCIW.BITNET),  
National Water Research Institute,  
Burlington, Ontario, Canada.

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Date: Tue, 14 Nov 89 14:01:30 EST  
From: pescatore\_jt%ncsd%gte.com@RELAY.CS.NET  
Subject: POSTSCRIPT QSL File, by NW2M

%AMATEUR RADIO QSL CARD POSTSCRIPT.  
% NOTE: THIS FILE IS KIND OF WASHINGTON DC SPECIFIC, BUT YOU  
%CAN EASILY MODIFY IT TO YOUR LOCALE  
%  
%GENERATED BY AL RABASSA NW2M - GTE CORP ROCKVILLE, MD.  
%  
%BEFORE YOU ATTEMPT TO CHANGE THIS ROUTINE, PLEASE EXECUTE THIS FILE  
%AND FOLLOW ALONG SO YOU GET A FEEL FOR THE X,Y COORDINATE SYSTEM.  
%  
%INSERT YOUR CALL WITH NAME AND ADDRESS INTO THE APPROPRIATE SPACES.  
%THEN SIMPLY CHANGE THE X VALUE OF THE 'moveto' COMMAND TO PROVIDE  
%THE PROPER CENTERING. NO NEED TO MOVE Y-AXIS VALUES.  
%  
% BE VERY CAREFUL OF THE SCALE COMMAND !!!! IF YOU SCALE SOMETHING TO  
%A SCALE OF .9 .9 scale (reduce x-axis by 90%, reduce y-axis by 90%)  
%THEN YOU MUST PERFORM A 1.1 1.1 scale TO PUT YOU BACK TO THE  
%ORIGINAL SCALE--A SCALE COMMAND OF 1 1 scale DOES NOTHING !!!!!  
%  
% REGARDS, AND GOOD LUCK !!! AL NW2M  
%  
%  
/yourcall {  
  
/Helvetica-BoldOblique findfont %DEFINE AND USE BIG LETTERS  
45 scalefont setfont %65 IS BIG !!!  
.1 setlinewidth  
  
1 1.25 scale  
135 10 moveto  
(WB2EKK>true charpath  
gsave .9 setgray fill grestore %PRINT THE SHADOW IMAGE  
stroke  
  
.1 setlinewidth  
130 8 moveto  
(WB2EKK>true charpath  
gsave .0 setgray fill grestore %PRINT THE BOLD IMAGE

stroke

1 .75 scale

%INSERT NON-STANDARD FUNNY PHEONITICS OR DELETE THIS SECTION

%/Helvetica-BoldOblique findfont

% 6 scalefont setfont

%.1 setlinewidth

%150 3 moveto

%( " No Where to Move ")

%true charpath

%gsave .0 setgray fill grestore

%stroke

%make outside card border

1 setlinewidth

-18 -135 moveto

345 -135 345 90 10 arcto forpops

345 90 -28 90 10 arcto forpops

-28 90 -28 -135 10 arcto forpops

-28 -135 -10 -135 10 arcto forpops

stroke

%make name and address section

%insert name and address here !!! move x-axis moveto's to center text

/Helvetica-BoldOblique findfont

15 scalefont setfont

.1 setlinewidth

175 -20 moveto

(John Pescatore>true charpath

.0 setgray fill

/Helvetica-BoldOblique findfont

8 scalefont setfont

.1 setlinewidth

200 -30 moveto

(1135 Radio Drive>true charpath

190 -40 moveto

(Silicon Junction, MD 20904>true charpath

225 -50 moveto

(USA>true charpath

.0 setgray fill

190 -65 moveto

(Quearrem County>true charpath

195 -75 moveto

(FM-19 ZONE 5>true charpath

.0 setgray fill

```
%make box for call/freq/date....etc.
```

```
1.0 setlinewidth
```

```
-15 -85 moveto
```

```
325 -85 lineto
```

```
325 -115 lineto
```

```
-15 -115 lineto
```

```
-15 -85 lineto
```

```
closepath
```

```
stroke
```

```
95 -85 moveto
```

```
95 -115 lineto
```

```
165 -85 moveto
```

```
165 -115 lineto
```

```
215 -85 moveto
```

```
215 -115 lineto
```

```
275 -85 moveto
```

```
275 -115 lineto
```

```
stroke
```

```
%make qsl/tnx check box
```

```
.1 setlinewidth
```

```
50 -120 moveto
```

```
55 -120 lineto
```

```
55 -125 lineto
```

```
50 -125 lineto
```

```
50 -120 lineto
```

```
stroke
```

```
200 -120 moveto
```

```
205 -120 lineto
```

```
205 -125 lineto
```

```
200 -125 lineto
```

```
200 -120 lineto
```

```
60 -125 moveto
```

```
(PSE QSL>true charpath
```

```
210 -125 moveto
```

```
(TNX, 73>true charpath
```

```
stroke
```

```
%insert names into information box
```

```
/Helvetica-BoldOblique findfont
```

```
6 scalefont setfont
```

```
.1 setlinewidth
```

```
-10 -90 moveto
```

```
(CALL>true charpath
```

```
100 -90 moveto
```

```
(FREQUENCY>true charpath
```

```
170 -90 moveto
```

```

(MODE>true charpath
220 -90 moveto
(DATE/TIME>true charpath
280 -90 moveto
(SIGNAL>true charpath
gsave .0 setgray fill grestore

```

```

stroke
}def

```

```

%begin to define the ARRL symbol.    very delicate !! don't mess with !!

```

```

/forpops
{ 4 {pop} repeat } def
/frame
{
/Helvetica-BoldOblique findfont
6 scalefont setfont
311 -52 moveto
320 -70    330 -50 1 arcto forpops
330 -50    320 -30 5 arcto forpops
320 -30    310 -50 1 arcto forpops
310 -50    312 -54 5 arcto forpops
} def

```

```

/doall
{
yourcall          %execute all of the above 'def' definition !

```

```

frame
1 setlinewidth
.0 setgray
stroke

```

```

%insert ARRL letters into ARRL symbol box
/Helvetica-Bold findfont
6 scalefont setfont
.1 setlinewidth
317.5 -40 moveto
(A>true charpath
312 -52 moveto
(R>true charpath
323 -52 moveto
(R>true charpath
318 -64 moveto
(L>true charpath
307 -76 moveto
(MEMBER>true charpath

```

```
.0 setgray fill
```

```
%make aerial symbol
```

```
.3 setlinewidth
```

```
320 -41 moveto
```

```
320 -47.5 lineto
```

```
320 -41 moveto
```

```
323 -41 lineto
```

```
320 -44 lineto
```

```
317 -41 lineto
```

```
320 -41 lineto
```

```
%connect to inductor whic will be drawn in a moment
```

```
320 -53.5 moveto
```

```
320 -56 lineto
```

```
%make ground symbol
```

```
317 -56 moveto
```

```
323 -56 lineto
```

```
318 -57 moveto
```

```
322 -57 lineto
```

```
319 -58 moveto
```

```
321 -58 lineto
```

```
319.75 -59 moveto
```

```
320.25 -59 lineto
```

```
stroke
```

```
%make inductor symbol
```

```
%very delicate calculations here !!! don't mess with !!!
```

```
320 -47 translate
```

```
/circle1
```

```
{ 5 setlinewidth
```

```
0 0 30 90 270 arc stroke } def
```

```
/circle2
```

```
{ 8 setlinewidth
```

```
0 0 20 270 90 arc stroke } def
```

```
/inductor
```

```
{ 1 .5 scale
```

```
4 { 0 -40 translate
```

```
circle1} repeat
```

```
0 140 translate
```

```
1 .5 scale
```

```
3 { 0 -80 translate
```

```
circle2} repeat
```

```
} def
```

```
.06 .07 scale
```

```

inductor
16 55 scale
-330 52 translate
%end of inductor drawing and ARRL symbol .... wow!

%make washington diamond
55 -20 moveto
85 -50 lineto
55 -80 lineto
25 -50 lineto
55 -20 lineto
.9 setgray fill %lightly filled

%make the beltway
.3 setlinewidth
1 .80 scale %a scaled circle is an ellipse
55 -62 40 0 360 arc
0 setgray stroke
1 1 scale

%begin putting names to the map area
/Helvetica-BoldOblique findfont
15 scalefont setfont
.7 setlinewidth
0 -55 moveto
(WASHINGTON>true charpath
40 -70 moveto
(D.C.)true charpath
40 90 moveto
(Pig Farmers Radio Club>true charpath
stroke

%draw route 270
/Helvetica-BoldOblique findfont
8 scalefont setfont
.1 setlinewidth
30 -30 moveto
-10 65 lineto
80 -30 moveto
120 65 lineto
stroke
%lets add some city names
-10 15 moveto
(ROCKVILLE>true charpath
-35 67 moveto
(FREDERICK>true charpath
85 67 moveto

```

```

(BALTIMORE>true charpath
85 25 moveto
(LAUREL>true charpath
stroke
%put your city with the proper x-y coordinates here... be sure that the
%'fill' command is used to provide the bold highlight
40 30 moveto
(ASHTON>true charpath
0 setgray fill

} def

45 145 translate      %start near the bottom to begin this program

%30 100 translate      %un-comment '%' for 5x8 inch BIG-ONE
%1.5 1.5 scale          %un-comment '%' for 5x8 inch BIG-ONE

doall                  %perform the contents of 'doall' (everything)

%un-comment this '%' section to provide 3 QSL cards per page
%KEEP COMMENTED OUT OF BIG-ONE IS TO BE PRINTED !!!! ONLY ONE WILL FIT !!
%-3 310 translate
%1.037 1.3 scale
%doall

%-3 310 translate
%1.037 1.3 scale
%doall

showpage              %PUTS ALL OF THIS ON THE PAPER!!  THAT'S ALL FOLKS !!

```

```

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Date: 14 Nov 89 12:5:12
From: David Waters <David_Waters.M1@smtp.ESL.COM>
Subject: Requesting Info-hams mailer

```

Requesting Info-hams mailer

12:03

11/14/89

I hope this is the right address to request this - could I be added to the

distribution of Info-Hams? Thank you.

Dave Waters

ESL Inc.

(408)738-2888 x4611

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Date: 14 Nov 89 17:36:51 GMT

From: philmtl!atha!aunro!adec23!mark@uunet.uu.net (Mark Salyzyn)

Subject: Vertical HF Antennas

In article <12296@fluke.COM>, frank@tc.fluke.COM (Frank Tomlinson) writes:

> I am considng a vertical antenna, the Cushcraft R5 No-Ground-Radial

> Vertical. I am interested in hearing from others using multiband

> vertical antennas. What is your opinion of there performance?

>

> Is the R5 design different from other verticals in some significant

> way as to eliminate the need for ground radials?

>

> How is the R4 different from the R5?

The Vertical HF Antenna, generally, refers to a quarter wave vertical antenna. This antenna requires ground plane radials to 'mirror' the vertical (as far as field dynamics) so that it looks like a half wave dipole antenna. The R3, R4 and R5 verticals are half wave vertical antennas. These half wave verticals do not require a counterpoise to to 'mirror' the vertical since the antenna is already resonant. However, two design considerations: The half wave is too big, so they do have saome inherent loading due to the traps that shorten the antenna; And, an end fed half wave (voltage fed) are VERY sensitive to interference of it's field (and thus it's impedance)by conductive objects near by, thus requires a small decoupling counterpois. It is tricky to end feed a half wave, but cushcraft has managed to do it, I praise them for being able to do it on a mass produced product.

The R3 was a three band version 10, 15 and 20M. R4 added 12M I think, and the R5 added the other WARC band for a total coverage of 10/12/15/17/20 Meter bands. The reports on this antenna are VERY good (I don't own one .. yet) but not as good as available 5/8 Wave antennas (which by no means provide the bands the R# series have) but often provide surprising better results than some HF beam antennas !!!

Ciao,

-- Mark Salyzyn    alberta!adec23!mark

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Ciao,

-- Mark Salyzyn @ alberta!adec23!mark

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End of INFO-HAMS Digest V89 Issue #881

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